



No.C-14011/CPCB/PT-29/Water/65

Dated: 04<sup>th</sup> July, 2013

**LABORATORY DIVISION - WATER LABORATORY**  
**29<sup>th</sup> PROFICIENCY TESTING PROGRAMME - WATER - FEBRUARY, 2013**

**REPORT**

**Laboratory Address :** The Laboratory Incharge  
Maharashtra Pollution Control Board,  
Jog Centre, 3rd Floor, Old Pune - Mumbai Road  
Wakdewdi, PUNE - 411 003, MAHARASHTRA

**Laboratory Code :** 65

S.No.	Test Parameter	Unit	Sample	Reference Value	SD (NIQR Basis)	Lab's result	Lower Accept. Limit	Higher Accept. Limit	Robust Z-score	Remarks (Y/N/NR)
1.	TDS	mg/l	A	107.50	12.2	92	83.04	131.96	-1.27	Y
			B	135.00	18.0	116	99.05	170.95	-1.06	Y
2.	FDS	mg/l	A	66.00	13.3	57	39.31	92.69	-0.67	Y
			B	92.50	14.1	92.5	64.33	120.67	-1.06	Y
3.	TKN	mg/l	A	4.31	1.7	1.96	0.90	7.72	-1.38	Y
			B	6.66	1.4	6.72	3.84	9.48	0.04	Y
4.	NH <sub>3</sub> -N	mg/l	A	1.91	1.16	0.55	1.50	4.22	-1.17	Y
			B	3.56	0.82	3	1.92	5.19	-0.68	Y
5.	Sodium	mg/l	A	9.57	1.6	8.40	6.36	12.77	-0.73	Y
			B	18.00	1.6	17	14.74	21.26	-0.61	Y
6.	Potassium	mg/l	A	13.85	1.3	13.4	11.28	16.42	-0.35	Y
			B	18.10	1.4	17.40	15.36	20.84	-0.51	Y
7.	PO <sub>4</sub> -P	mg/l	A	0.16	0.07	0.12	0.02	0.30	-0.57	Y
			B	0.31	0.05	0.3	0.20	0.42	-0.21	Y
8.	COD	mg/l	A	147.00	7.7	144	131.52	162.48	-0.39	Y
			B	104.00	5.9	104	92.14	115.86	0	Y
9.	BOD	mg/l	A	74.00	13.9	76	46.25	101.75	0.14	Y
			B	47.00	11.1	55	24.76	69.24	0.72	Y
10.	pH	mg/l	A	4.01	0.04	4.06	3.93	4.08	1.28	Y
			B	9.18	0.07	9.20	9.05	9.31	0.30	Y
<b>Overall performance in %</b>										<b>100</b>

Note: Acceptable limits are fixed based on Reference value (Median)  $\pm$  2 Standard Deviation (NIQR basis) i.e. within  $\pm$  2 Z Scores values for both sample A & B individually.

IQR (Inter Quartile Range) = Q3-Q1; Q1 = 1<sup>st</sup> Quartile; Q3 = 3<sup>rd</sup> Quartile

NIQR (Normalized IQR) = IQRx0.7413 = 1 Standard Deviation

Z Score = (Observed value - Reference Value) / 1 Standard Deviation

Y - Within Acceptable Limit; N - Not within acceptable limit; NR - Not Reported

(Dr. P. K. Behera)  
Scientist 'C' &  
I/c. Water Lab